

William T Newsome

List of Publications by Year in descending order

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31
papers

9,320
citations

218677

26
h-index

434195

31
g-index

36
all docs

36
docs citations

36
times ranked

6847
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural Basis of a Perceptual Decision in the Parietal Cortex (Area LIP) of the Rhesus Monkey. <i>Journal of Neurophysiology</i> , 2001, 86, 1916-1936.	1.8	1,484
2	Context-dependent computation by recurrent dynamics in prefrontal cortex. <i>Nature</i> , 2013, 503, 78-84.	27.8	1,350
3	Correlated neuronal discharge rate and its implications for psychophysical performance. <i>Nature</i> , 1994, 370, 140-143.	27.8	1,158
4	Matching Behavior and the Representation of Value in the Parietal Cortex. <i>Science</i> , 2004, 304, 1782-1787.	12.6	952
5	Cortical microstimulation influences perceptual judgements of motion direction. <i>Nature</i> , 1990, 346, 174-177.	27.8	878
6	Responses of neurons in macaque MT to stochastic motion signals. <i>Visual Neuroscience</i> , 1993, 10, 1157-1169.	1.0	568
7	Cortical area MT and the perception of stereoscopic depth. <i>Nature</i> , 1998, 394, 677-680.	27.8	394
8	Effective Parameters for Ultrasound-Induced In Vivo Neurostimulation. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 312-331.	1.5	392
9	Separate Signals for Target Selection and Movement Specification in the Superior Colliculus. <i>Science</i> , 1999, 284, 1158-1161.	12.6	351
10	The BRAIN Initiative: developing technology to catalyse neuroscience discovery. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140164.	4.0	179
11	Integration of Sensory and Reward Information during Perceptual Decision-Making in Lateral Intraparietal Cortex (LIP) of the Macaque Monkey. <i>PLoS ONE</i> , 2010, 5, e9308.	2.5	175
12	Target Selection for Saccadic Eye Movements: Prelude Activity in the Superior Colliculus During a Direction-Discrimination Task. <i>Journal of Neurophysiology</i> , 2001, 86, 2543-2558.	1.8	155
13	Effects of Cortical Microstimulation on Confidence in a Perceptual Decision. <i>Neuron</i> , 2014, 83, 797-804.	8.1	143
14	Dynamics of Neural Population Responses in Prefrontal Cortex Indicate Changes of Mind on Single Trials. <i>Current Biology</i> , 2014, 24, 1542-1547.	3.9	143
15	Tracking the eye non-invasively: simultaneous comparison of the scleral search coil and optical tracking techniques in the macaque monkey. <i>Frontiers in Behavioral Neuroscience</i> , 2012, 6, 49.	2.0	110
16	Natural Grouping of Neural Responses Reveals Spatially Segregated Clusters in Prearcuate Cortex. <i>Neuron</i> , 2015, 85, 1359-1373.	8.1	92
17	Orbitofrontal Cortex Value Signals Depend on Fixation Location during Free Viewing. <i>Neuron</i> , 2016, 90, 1299-1311.	8.1	91
18	Temporal gating of neural signals during performance of a visual discrimination task. <i>Nature</i> , 1998, 394, 72-75.	27.8	88

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19	Remote, brain region-specific control of choice behavior with ultrasonic waves. <i>Science Advances</i> , 2020, 6, eaaz4193.	10.3	73
20	The Critical Role of Nonhuman Primates in Medical Research - White Paper. <i>Pathogens and Immunity</i> , 2017, 2, 352.	3.1	70
21	The Brain Research Through Advancing Innovative Neurotechnologies (BRAIN) Initiative and Neurology. <i>JAMA Neurology</i> , 2014, 71, 675.	9.0	67
22	Opportunities and limitations of genetically modified nonhuman primate models for neuroscience research. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24022-24031.	7.1	64
23	Decoding and perturbing decision states in real time. <i>Nature</i> , 2021, 591, 604-609.	27.8	64
24	The neurobiology of cognition. <i>Nature</i> , 1999, 402, C35-C38.	27.8	62
25	Effects of inferotemporal cortex lesions on form-from-motion discrimination in monkeys. <i>Experimental Brain Research</i> , 1992, 88, 292-302.	1.5	60
26	Differential encoding in prefrontal cortex projection neuron classes across cognitive tasks. <i>Cell</i> , 2021, 184, 489-506.e26.	28.9	58
27	Deviation from the matching law reflects an optimal strategy involving learning over multiple timescales. <i>Nature Communications</i> , 2019, 10, 1466.	12.8	31
28	Nonhuman Primate Models of Visually Based Cognition. <i>ILAR Journal</i> , 1999, 40, 78-91.	1.8	19
29	Comment on "In Monkeys Making Value-Based Decisions, LIP Neurons Encode Cue Salience and Not Action Value". <i>Science</i> , 2013, 340, 430-430.	12.6	13
30	Monkeys play the odds. <i>Nature</i> , 1999, 400, 217-218.	27.8	7
31	The Neuronal Basis of Motion Perception. <i>Novartis Foundation Symposium</i> , 1993, 174, 217-246.	1.1	5